

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-170993

(43)Date of publication of application : 14.06.2002

(51)Int.Cl.

H01L 33/00
 C01G 9/00
 C01G 15/00
 C09K 11/08
 C09K 11/55
 C09K 11/62
 H01L 21/205
 H05B 33/10
 H05B 33/14

(21)Application number : 2000-366118

(71)Applicant : SHIN ETSU HANDOTAI CO LTD

(22)Date of filing : 30.11.2000

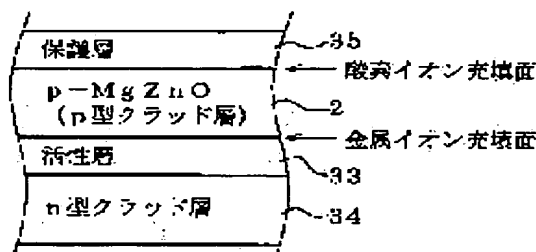
(72)Inventor : ISHIZAKI JUNYA
YAMADA MASAHIITO

(54) LIGHT EMITTING ELEMENT AND ITS FABRICATING METHOD, VISIBLE LIGHT EMITTING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a light emitting element in which an emission layer part can be grown at a relatively low temperature using a small quantity of rare metal and high luminance emission can be ensured in blue light region and UV region.

SOLUTION: The light emitting element 1 has an emission layer part where a p-type clad layer 2, an active layer 33 and an n-type clad layer 34 are formed sequentially in this order and the p-type clad layer 2 comprises a p-type $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ layer ($0 < x \leq 1$). When that layer is formed by MOVPE method, missing of oxygen can be suppressed effectively during film deposition and a p-type $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ layer having good characteristics can be obtained.



LEGAL STATUS

[Date of request for examination]

27.10.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]